

## PLUMBER

### DEFINITION

To perform skilled plumbing in the construction, maintenance and repair of City facilities and buildings and related structures; install, maintain, repair, and service all types of fixtures and equipments; and to perform related work as assigned.

### SUPERVISION RECEIVED AND EXERCISED

Receives general supervision from an assigned supervisor.

ESSENTIAL FUNCTIONS – Functions may include, but are not limited to, the following:

Perform a wide variety of plumbing and related craftwork in the construction, maintenance and repair of City buildings, park and recreational facilities, and related structures.

Install, maintain, and replace water, wastewater, and gas piping, including iron, cooper, and plastic pipe; install and repair fixtures and cut into existing piping.

Inspect and maintain air and water heating systems, and gas fired heaters and boilers; install and maintain circulatory, return line, and vacuum pumps.

Inspect and test-plumbing systems to determine need for repairs; install and repair piping systems, toilets, fountains, drains and other plumbing fixtures lay, caulks, and joins pipe.

Troubleshoot operating problems; prepare and maintain a preventive maintenance program.

Plan, design, and lay out craft assignments; read and interpret plans, blueprints, and specifications; estimate materials, tools and equipment needed for work assignments; prepare cost estimates for larger jobs.

Order and pick up materials and supplies from outside vendors as appropriate

Operate and maintain a wide variety of hand and power tools, shop tools and other equipment used in the trade.

Observe safe work methods and safety precautions related to the work; cone and flag work sites to secure from traffic; use appropriate safety equipment and devices; attend safety meetings; inspect and repair safety hazards encountered in the course of the work.

Provide technical guidance to less experienced assistants; instruct and train assistants in proper work methods and job safety.

Assist in developing specifications for contract work; inspect contract work for conformity to specifications; recommend work as necessary.

Assist other trades on major jobs.

Keep work related records using a computer.

Operate City vehicles with attachments skillfully and safely.

In the absence of the supervisor, assume responsibilities as needed.

Build and maintain positive working relationships with co-workers, other City employees and the public using principles of good customer services.

Perform other related duties as assigned.

#### MINIMUM QUALIFICATIONS

##### Knowledge of:

Principles and techniques of water and wastewater supply and drainage plumbing using galvanized, copper, and PVC pipe.

Principles, techniques, tools and materials used in the plumbing trade.

Operation and maintenance of a wide variety of hand, power and shop tools, test equipment and other equipment common to the field of plumbing.

Pertinent rules, laws, codes and policies related to area of assignment.

Safe work methods and safety regulations pertaining to the work including the use of personal protective equipment.

Computer equipment and software applications related to assignment.

English usage, spelling, grammar, and punctuation.

##### Ability to:

Operate and maintain specialized tools used in plumbing and related building trades.

Measure and calculate angles, lengths and volumes.

Design, lay out and prepare sketches and plans for construction jobs.

Estimate necessary materials and equipment to complete assignments.

Read and interpret manuals, specifications, drawings, plans and blueprints.

Basic mathematical computations.

Use and operate tools and equipment related to assignment, including personal protective equipment.

Keep work related records and prepare reports using a computer.

Work effectively at remote locations without direct supervision.

Operate City vehicles observing legal and defensive driving practices.

Follow oral instruction; read, interpret, follow and explain written instructions, construction sketches and equipment manuals.

Use initiative and sound independent judgment within established guidelines.

Communicate clearly and concisely, both orally and in writing.

Work overtime and off-hours shifts when necessary because of an emergency or in the interest of the efficiency of the department.

Establish and maintain effective working relationships with those contacted in the course of work.

Work with various cultural and ethnic groups in a tactful and effective manner.

#### Experience and Training

Any combination of experience and training that would likely provide the required knowledge and abilities is qualifying. A typical way to obtain the knowledge and abilities would be:

#### Experience:

Three years of responsible plumbing experience in a governmental agency or a commercial, industrial or residential organization.

Training:

Equivalent to the completion of the twelfth grade supplemented by specialized training in the installation, repair and maintenance of plumbing systems.

License or Certificate

Possession of a valid California driver's license.

PHYSICAL DEMANDS

On a continuous basis, sit, stand, bend, climb ladders (up to 40 feet), stoop, kneel, crouch, crawl and twist for varying periods in the course of work; use hands and fingers to grasp tools; make repetitive hand and body motions; twist and reach below and above shoulder; lift or carry objects weighing up to 100 pounds; to communicate with co-workers using a two-way radio; use telephone, and write or use a keyboard to communicate through written means; see in the normal vision range with or without correction to read computer screen, blueprints, and drafting plans; hear in the normal range with or without correction.

WORKING ENVIRONMENT

Work is performed both indoors and outdoors environments. Some work is performed with exposure to low to loud noise level; frequent fieldwork is required with exposure to a variety of weather conditions and the external environment; tasks may require working in tightly enclosed spaces and the use of ladders or other safety equipment to gain access to hard to reach locations; some work is performed in crawl spaces, attics or on rooftops. Some work may require exposure to unpleasant and potentially hazardous substances and high voltage.

4/03